

इंटरनेट

मानक

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Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

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“Step Out From the Old to the New”

IS 7712 (1975): Curette, Adenoid, St. Clair Thomson's
Pattern [MHD 4: Ear, Nose and Throat Surgery Instruments]



“ज्ञान से एक नये भारत का निर्माण”

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“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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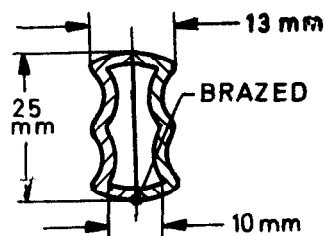
Indian Standard

SPECIFICATION FOR CURETTE, ADENOID, ST. CLAIR THOMSON'S PATTERN

1. Scope — Dimensional and other requirements for St. Clair Thomson's pattern adenoid curette with cage of sizes 8, 10, 12, 14, 16 and 18 mm used in ENT surgery.

2. Shape and Dimensions — As shown in Fig. 1 and 2.

2.1 A deviation of ± 2.5 percent shall be allowed on all dimensions.



SECTION XX

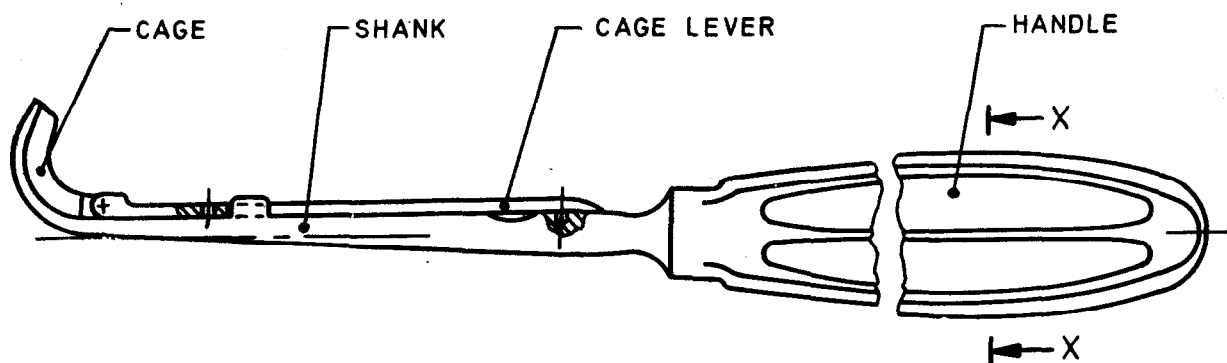


FIG. 1 CURETTE, ADENOID, ST. CLAIR THOMSON'S PATTERN

3. Material

3.1 Shank and Cage — Stainless steel conforming to Designation 40Cr13 of IS : 6603-1972 'Specification for stainless steel bars and flats'.

3.2 Handle — Brass sheet conforming to alloy grade CuZn40 of IS : 410-1967 'Specification for rolled brass plate, sheet, strip and foil (second revision)' or stainless steel conforming to Designation 04Cr18Ni10 or 07Cr18Ni9 of IS : 6911-1972 'Specification for stainless steel plate, sheet and strip'.

4. Workmanship and Finish

4.1 The surfaces of the curette shall be free from pits, dents, burrs, scale and other defects.

4.2 All edges shall be even and rounded.

4.3 The curette shall be well and evenly hardened.

4.4 The handle and the shank shall be of force fit or screwed and soldered.

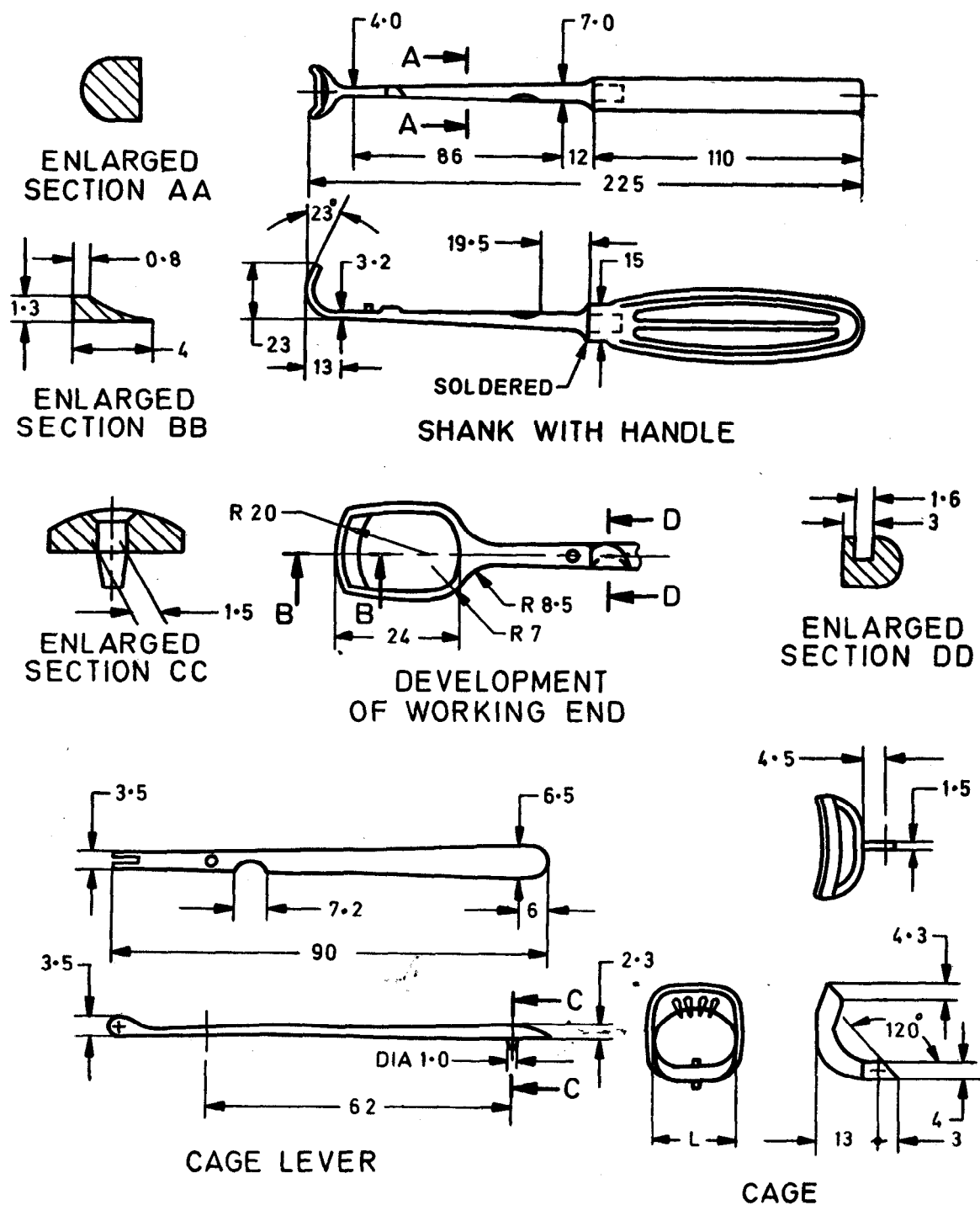
4.5 The brazing and soldering shall be neat and sound. The joints shall be finished smooth.

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L = 10, 12, 14, 16

All dimensions in millimetres.

FIG. 2 DETAILS, CURETTE, ADENOID, ST. CLAIR THOMSON'S PATTERN

- 4.6 The teeth shall be pointed and force fit to the cage.
- 4.7 The tap of the spoon shall be well and evenly made. The fenestra in the spoon shall be neatly cut.
- 4.8 The handle of the curette (if made of brass) shall be plated chromium over nickel and the plating shall conform to Grade 2 of IS: 4827-1968 'Specification for electroplated coatings of nickel and chromium on copper and copper alloys'.
- 4.9 The stainless steel components shall be polished bright and passivated.

4.10 The lever action of the spring shall be such that when the cage is in midway between the shank and the blade it shall spring back to fit snugly against the blade.

4.11 There shall not be any gap between the cutting edge and the cage at the bottom. Gaps shall be provided on both sides for opening purposes.

4.12 Locking arrangement between the cage and the shank shall be such that there shall not be any play after assembly.

5. Heat Treatment — The instrument shall be hardened and tempered to give a hardness of 400 to 450 HV when measured as near to the working edge as possible.

6. Tests

6.1 Performance — Edge of a hard-wood block shall be scraped for 10 times by the sharp edge of the curette along the grain. The curette shall scrape the wood smoothly and cleanly with moderate degree of force. On completion of test the edge of the blade shall not show any sign of damage or distortion.

6.2 Flexibility — Clamp the curette in a suitable vice along its axis such that 60 mm of the shaft portion from the tip protrudes outside the vice. Suspend a load of 40 N (4 kgf approx) gradually at a distance of 15 mm from the tip. On completion of the test the curette shall show no sign of damage or permanent set.

6.3 Corrosion Resistance — The instrument shall satisfy the boiling and autoclaving test as mentioned in IS : 7531-1975 ' Method for boiling and autoclaving test for corrosion resistance of stainless steel surgical instruments '.

6.4 Subject to agreement between the purchaser and the supplier, the instrument may be put to the following test.

6.4.1 Copper sulphate test — Scrub the sample with soap and warm water, rinse in hot water and then dip in 95 percent ethyl alcohol. Dry the sample. Immerse in copper sulphate solution at room temperature for 6 minutes and wash off with fresh water or wet cotton wool. Composition of the solution shall be as follows:

Copper sulphate ($\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$)	4.0 g
Sulphuric acid (H_2SO_4) (sp gr 1.84)	10.0 g
Distilled water [see IS : 1070-1960 Specification for water, distilled quality (revised)]	90.0 ml

No red stains or spots on the sample shall be allowed but dulling of the polished surface may be permitted.

7. Marking — The curette shall be marked with the following:

- Manufacturer's name, initials or recognized trade-mark;
- The words Stainless Steel or letters ' SS ' ; and
- Size of the cage.

7.1 ISI Certification Marking — Details available with the Indian Standards Institution.

8. Packing — The curette shall be wrapped in moisture-proof paper or packed in polyethylene bags, avoiding contact with one another. The curette may also be packed as agreed to between the purchaser and the supplier.